# Weather Event Simulator
# Case Study

Originating Office    :    WFO Miami
Date of Case          :    27 March 2003
Contacts              :    PabloSantos@noaa.gov
Weather Event         :    Severe Weather - Tornado/Severe Thunderstorm

Learning Objectives   :    1)  To review the role of boundaries in tornado genesis.
2)  To review concepts related to supercell development, apply them to a real event simulation, and practice warning decision making. The primary concepts to be reviewed include:
cross-stream vorticity, streamwise vorticity, hodograph analysis, relative helicity, and Bulk Richardson Number

Available Data        :    All radar data for KAMX
                      :    AWIPS model guidance fields
                      :    All AWIPS satellite imagery
                      :    All AWIPS point data.
                      :    All AWIPS redbook graphics.

Time Period of Data   :    1200 to 2359 UTC Mar 27, 2003.
                           (Radar imagery from 1800 UTC)

Type of Simulation    :    Displaced Real Time Simulation -- Self Guided

Completion Time       :    One hour

Additional Materials  :    Electronic copy of Simulation Guide and March 2003 issue of Storm Data (for verification) can be found on the DVD-ROM in the ***docs*** directory

Installation          :    Use the CaseInstaller.tcl script to install the case specifying one (1) DVD-ROM, the appropriate directory (e.g., /data/awips) on the appropriate hard drive (e.g., /dev/sdb1).  The case directory will be called 2003Mar27.

Special Instructions  :    This case includes localizations for WES versions 1.0, 1.1, 1.2 and 1.3/2.0. Please "cd" to the 2003Mar27/localizationDataSets subdirectory and extract (zcat | tar -xvf -) the appropriate localization for your version of the WES software.
                      :    The case includes some suggested AWIPS D2D procedures which can be accessed by adding a user named 2003Mar27 to the file:  /awips/fxa/data/fxa-users .  The procedures are stored in two groups called Water Vapor and KAMX User Functions.  They can be accessed by choosing: *File --> Select User ID...* followed by:
*File --> Procedures --> Open ...* from the D2D interface.